RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

Source:

Date Processed by STIC:

1009,445C 1FW16

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial	Number: 009,445C CRF Edit Date: 5/31/ Edited by: 7/2
	Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line
	Corrected the SEQ ID NO. Sequence numbers edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
u	Deleted: invalid beginning/end-of-file text; page numbers
	Inserted mandatory headings/numeric identifiers, specifically:
	Moved responses to same line as heading/numeric identifier, specifically:
	Other:

Revised 09/09/2003

Raw Sequence Listing before editing, for reference only



IFW16

RAW SEQUENCE LISTING DATE: 05/31/2005
PATENT APPLICATION: US/10/009,445C TIME: 15:00:57

Input Set : N:\KEISHA\10009445c.txt

Output Set: N:\CRF4\05312005\J009445C.raw

```
4 <110> APPLICANT: BARCLAY, A. Neil
    BROWN, Marion H.
 5
        GORMAN, Daniel M.
 7
        LANIER, Lewis L.
        WRIGHT, Gavin J.
 8
        CHERWINSKI, Holly
 9
10
        PHILLIPS, Joseph H.
11
        HOEK, Robert M.
12
        SEDGWICK, Jonathan D.
14 <120> TITLE OF INVENTION: OX2 RECEPTOR HOMOLOGS (AS AMENDED)
                                                                       (PS, 6-7)
16 <130> FILE REFERENCE: 140942000900
18 <140> CURRENT APPLICATION NUMBER: US 10/009,445C
19 <141> CURRENT FILING DATE: 2001-11-13
21 <150> PRIOR APPLICATION NUMBER: PCT US00/12998
22 <151> PRIOR FILING DATE: 2000-05-11
24 <150> PRIOR APPLICATION NUMBER: GB 9925989.7
25 <151> PRIOR FILING DATE: 1999-11-03
28 <150> PRIOR APPLICATION NUMBER: GB 9911123.9
29 <151> PRIOR FILING DATE: 1999-05-13
31 <160> NUMBER OF SEQ ID NOS: 70
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36 <210> SEO ID NO: 1
37 <211> LENGTH: 1574
38 <212> TYPE: DNA
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42 <223> OTHER INFORMATION: Description of Unknown Organism: rodent; surmised
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46 <221> NAME/KEY: CDS
47 <222> LOCATION: (91)..(1071)
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50 <221> NAME/KEY: mat peptide
51 <222> LOCATION: (162)..(1071)
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57
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60 cac gta gca gta ctc ttg atc tgg ggg gtc ttc gcg gct gag tca agt
61 His Val Ala Val Leu Leu Ile Trp Gly Val Phe Ala Ala Glu Ser Ser
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                                                -5
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210

Input Set : N:\KEISHA\10009445c.txt
Output Set: N:\CRF4\05312005\J009445C.raw

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			aac														258
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			Leu	_		_			_								JJ1
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84	acc	tcc	aca	cct	gac	ctc	act	cct	gac	ctt	cag	atc	agt	qca	ata	acc	450
			Thr														
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86																	400
			cat														498
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			Gln				_				_				-	_	
94			115			- 4 -	<u>L</u> -	120					125				
_	200	a aa	ttt	002	aaa	~==	22t		act	~~=	att	tat		aca	2 t t	aca	594
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	Thr		Phe	Pro	GIY	GIU	Asn	Arg	THE	Ala	vai	Cys	GIU	ALa	тте	Ala	
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100 101 102 104 105 106 109 110 112 113 114 116 117 118 112 112 112 12	Gly His Ggt GA GA GGT GA GA GGT GA GA GGT GA GA GGT GA GGT GA	aaaa Lys aaaa Lys Caa His Leu Asp 210 att E Ile	g aat g aat tgg Trp g aca Thr 195 c caa Gln ttg	gaa Glu 180 act Thr tta Leu atc	Ala tca Ser 165 cag Gln ggt Gly tta Leu atc	Glm 150 cac His agc Ser aac Asn gga Gly ata 11e 230 ttg	atc Ile agc Ser cac His cag Cln tca Ser 215 gga Gly	ser aat Asn gtg Val tct Ser 200 tac Tyr tgc Cys	ggo Gly tct Ser 185 cts Leu att	Thr according to Thr 170 gto Val Ser case Glr tgt	Property of Proper	gate Asp Gact Thr The Pheagaa Galue Glue Leu Leu Gact Leu Gact Leu Gact Leu	gto yal tgt cys ctg Leu 205 ato Ile	Asp c cgg Arg val 190 ggt c cca c Pro	g ago g Ser 175 g to Val aga Aro Aro Ser agt	Val 160 aca Thr tct Ser ggg Gly att Tle ggc Gly 240 ggg	690 738 786 834 882
100 101 102 104 105 106 110 112 113 114 116 117 118 120 121 122 124 125	Glys 145 Glys Glys Glys Glys Glys Glys Glys Glys	aaaa Lys aaaa Lys Caa His Leu Asp 210 att E Ile	g aat g aat tgg Trp g aca Thr 195 c caa Gln ttg	gaa Glu 180 act Thr tta Leu atc	Ala tca Ser 165 cag Gln ggt Gly tta Leu atc Ile aaaa Lys	Glm 150 cac His agc Ser aac Asn gga Gly ata 11e 230 ttg Leu	atc Ile agc Ser cac His cag Cln tca Ser 215 gga Gly	ser aat Asn gtg Val tct Ser 200 tac Tyr tgc Cys	ggo Gly tct Ser 185 cts Leu att	Thr account of the 170 gtc Val Ser case Glr tgt Cys	Property of Proper	gate Asp Gact Thr The Pheagaa Galue Glue Leu Leu Gact Leu Gact Leu Gact Leu	gto yal tgt cys ctg Leu 205 ato Ile	Asp c cgg Arg val 190 ggt c cca c Pro	g ago g Ser 175 g gto Val aga Arg Arg Ser agt	Val 160 160 160 160 160 160 160 160	690 738 786 834 882
100 101 102 104 105 106 110 112 113 114 116 117 112 121 122 124 125	Glys 145 Gly	aaaa Lys aaga His Leu Asp 210 att Ile aga Arg	aat aaa Lys	gaa Glu gag Glu 180 act Thr tta Leu atc Ile	Ala tca Ser 165 cag Gln ggt Gly tta Leu atc Ile aaaa Lys 245	Glm 150 cac His agc Ser aac Asn gga Gly ata 11e 230 tto	atc Ile agc Ser cac His cag Gln tca Ser 215 gga Gly	ser aat Asn gtg Val tot Ser 200 tac Tyr tgc Cys	ggo Gly tct Ser 185 cts Leu att	Thr according Thr 170 gtc Val Ser case Glr tgt Cys	Property of Proper	gate Asp Gact Thr Gact Phe Gac Gluce at Car Gac The Gact Thr	gto Val tgt Cys Leu 205 ato Ile Lys	Asp c cgg Arg t Val 190 ggt Gly c cca e Pro	g ago g Ser 175 g gto Val aga Arg Arg Ser agt Ser agt	Val 160 160 160 160 160 160 160 160	690 738 786 834 882
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100 101 102 104 105 108 109 110 111 111 111 111 112 112 112 112 112	Gly 145 Gly Cys Cys Gly	aaaa Lys aaga His Leu Asp 210 att Ile aga Arg	g aat aaa aa aa a g Lys	Ala gaa Glu gag Glu 180 act Thr tta Leu atc Ile tgt Cys	Ala tca Ser 165 cag Gln ggt Gly tta Leu atc Ile aaaa Lys 245 cag	Glm 150 cac His agc Ser aac Asn gga Gly ata 11e 230 tte Leu	atc Ile ago Ser cac His cag Gln tca Ser 215 gga Gly	ser aat Asn gtg Val tot Ser 200 tac Tyr tgc Cys aaaa Lys gct	ggo Gly tct Ser 185 Ctg Leu att	Thr according Thr 170 gtc Val Ser Cas Glr tgt Cys Gly 250 Gly 250 C tac	Property of the property of th	gate Asp Asp Thr tto Phe agaa cate Glu cate Leu ttg ttg ttg	gto Val tgt Cys Leu 205 ato Ile Lys	Asp c cgg Arg t yal 190 ggt Gly c cca e Pro	g ago g Ser 175 g to Val aga Arg Arg a tot Ser agt 255 att	Val 160 160 160 160 160 160 160 160	690 738 786 834 882

Input Set : N:\KEISHA\10009445c.txt

Output Set: N:\CRF4\05312005\J009445C.raw

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192	_												_	Arg	TYL	Ser	
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	105	.op	116	та	Val	110	voh	СТУ	POII	I 116	115	L'OII	116	- y -	rop	120	
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198	· · · · · ·		 cu	•41	125	0	u	- 41		130			- Y	OLU	135	3	
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	1					3			-1-								

Input Set : N:\KEISHA\10009445c.txt

Output Set: N:\CRF4\05312005\J009445C.raw

207	170					175					100					
000 0	170		D 1	~	** - 7	175	a	**!	+	m1	180	~1	3	~ 1	a	
	Ser Val	vaı	Pne	Cys		vaı	ser	HIS	ьeu		Thr	GIA	Asn	Gin		
210 1				_	190	_			_	195	_	_	~-7	_	200	
	eu Ser	lle	GIu		GLY	Arg	GIY	GLY	_	GIn	Leu	Leu	GLY		Tyr	
213				205			٠		210					215		
215 I	le Gln	Tyr	Ile	Ile	Pro	Ser	Ile		Ile	Leu	Ile	Ile	Ile	Gly	Cys	
216			220					225					230			
218 I	le Cys	Leu	Leu	Lys	Ile	Ser	Gly	Cys	Arg	Lys	Cys	Lys	Leu	Pro	Lys	
219		235					240					245				
221 S	Ser Gly	Ala	Thr	Pro	Asp	Ile	Glu	Glu	Asp	Glu	Met	Gln	Pro	Tyr	Ala	
222	250					255					260					
224 S	er Tyr	Thr	Glu	Lys	Ser	Asn	Pro	Leu	Tyr	Asp	Thr	Val	Thr	Thr	Thr	
225 2	65			_	270				_	275					280	
227 G	lu Ala	His	Pro	Ala	Ser	Gln	Gly	Lys	Val	Asn	Gly	Thr	Asp	Cys	Leu	
228				285			-	-	290		-		_	295		
	hr Leu	Ser	Ala		Glv	Ile										
231			300		- 4											
	:210> S	EO II		. 3												
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211 -	->>1 N T	7 ME / 1	ZEV.	CDC												
	:221> N				7 \	/1101										
245 <	:222> L	OCAT:	ON:		7)	(110	L)									
245 < 247 < 2	:222> L :220> F	OCAT: EATUI	ION: RE:	(21			L)									
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245 < 247 < 248 < 249 < 249 < 249	:222> L :220> F :221> N :222> L	OCAT: EATUI AME/I OCAT:	ION: RE: KEY: ION:	(21) mat_ (29)	_pept	ide										
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245 < 247 < 248 < 249 < 251 < 252 c	:222> L :220> F :221> N :222> L :400> S :agagaa	OCAT: EATU! AME/! OCAT: EQUE! aag (ION: RE: KEY: ION: NCE: Cttct	(21) mat_ (29) 3	_peptos)	ide (110)	l) gttad		_				_	_		
245 < 247 < 248 < 249 < 251 < 252	:222> L :220> F :221> N :222> L :400> S :agagaa	OCAT: EATUI AME/I OCAT: EQUEI aag (ION: RE: KEY: ION: NCE: cttct	(21) mat_ (29) 3 gtto	_peptos) cg to ga gt	ide (1103 ccaag	l) gttac	gtt	gate	9999	taag	gagga	atc d	ctgta	actgag	120
245 < 247 < 248 < 249 < 251 < 252	:222> L :220> F :221> N :222> L :400> S :agagaa laggggc	OCAT: EATUI AME/I OCAT: EQUEI aag o tag o	ION: RE: KEY: ION: NCE: cttct aagga	mat_(29!3)	_pept 5) cg to ga gt ct ca	cide (1103 ccaag cgcca	l) gttac ccact	gtt c aca	gate	gggg cctt	taag ctgt	gagga cacca	atc d	tgta gtgga	actgag aggaaa	120 180
245 < 247 < 248 < 249 < 251 < 252	:222> L :220> F :221> N :222> L :400> S :agagaa	OCAT: EATUI AME/I OCAT: EQUEI aag o tag o	ION: RE: KEY: ION: NCE: cttct aagga	mat_(29!3)	_pept 5) cg to ga gt ct ca	cide (1103 ccaag cgcca	l) gttac ccact	gtt c aca	gate	gggg cctt atg	taag ctgt ctc	gagga cacca tgc	atc d agt g cct	etgta gtgga tgg	actgag aggaaa aga	120
245 < 247 < 248 < 249 < 251 < 252	:222> L :220> F :221> N :222> L :400> S :agagaa laggggc	OCAT: EATUI AME/I OCAT: EQUEI aag o tag o	ION: RE: KEY: ION: NCE: cttct aagga	mat_(29!3)	_pept 5) cg to ga gt ct ca	cide (1103 ccaag cgcca	l) gttac ccact	gtt c aca	gate	gggg cctt atg	taag ctgt ctc Leu	gagga cacca tgc	atc d agt g cct	etgta gtgga tgg	actgag aggaaa aga	120 180
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga	OCAT: EATUI AME/I OCAT: EQUEI aag (tag a cca g agt g	ION: RE: KEY: ION: NCE: cttct aagga gagag	(21 mat_ (295 3 cgtto aaggg gggto	_pept 5) cg to ga gt ct ca ga aa	cide (110: ccaaç cgcca accat	l) gttac ccact cgcgc agaaa	t gtt c aca a aca	gato gtto gaa	gggg ectt atg Met	taag ctgt ctc Leu -25	gagga tacca tgc Cys	atc d agt g cct Pro	tgta gtgga tgg Trp	actgag aggaaa aga Arg	120 180 234
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga gtactg	OCAT: EATUI AME/I OCAT: EQUEI aag (tag (cca (agt (ION: RE: REY: ION: RCE: cttct aagga gaagg	mat_(2953 aggtoggggtoggggtoggggtogggggggggggggggg	_pept 5) cg to ga gt ct ca ga aa cta	cide (110: ccaag cgcca accat aaaga ctg	l) gttac gcact gcgc agaaa ttg	t gtt c aca a aca att	gato agtto agaa ttg	gggg ectt atg Met	ctgt ctc Leu -25 atc	gagga tacca tgc Cys ttc	atc dagt g cct Pro	etgta gtgga tgg Trp gtg	actgag aggaaa aga Arg gcc	120 180
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg	OCAT: EATUI AME/I OCAT: EQUEI aag (tag (cca (agt (ION: RE: REY: ION: RCE: cttct aagga gaagg	mat_(2953 aggtoggggtoggggtoggggtogggggggggggggggg	_pept cg to ga gt ct ca ga aa cta Leu	cide (110: ccaag cgcca accat aaaga ctg	l) gttac gcact gcgc agaaa ttg	t gtt c aca a aca att	gato agtto agaa ttg	gggg ectt atg Met act Thr	ctgt ctc Leu -25 atc	gagga tacca tgc Cys ttc	atc dagt g cct Pro	etgta gtgga tgg Trp gtg	actgag aggaaa aga Arg gcc Ala	120 180 234
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg	OCAT: EATUI AME/I OCAT: EQUEI aag (tag a cca (agt (agt (Asn	ION: RE: RE: ION: RE: LETT REST REST REST REST REST REST REST R	mat_ (29! 3 tgtto aaggo gggto gggto ggcao Ggg	pept ga gt ga gt ct ca ga aa cta Leu -15	cide (110: ccaag gcca accat aaaga ctg Leu	ttg Leu	att Ile	gato agtto agaa ttg Leu	act Thr	taag ctgt ctc Leu -25 atc Ile	gagga tgc Cys ttc Phe	atc of agt of cct Pro tta Leu	tgta gtgga tgg Trp gtg Val	actgag aggaaa aga Arg gcc Ala -5	120 180 234
245 < 247 < 248 < 249 < 251 < 252 cd 254 ad 256 ad 259 260 262 ad 263 Ti 264 - 266 gd	222> L 220> F 221> N 222> L 400> S 2agagaa aggggc agttga agtactg Act gct Chr Ala 220 Jaa gcg	OCAT: EATUI AME/I OCAT: EQUEI aag (tag (cca (agt (agt (Asn gag	ION: RE: REY: ION: REE ION: REE REE REE REE REE REE REE REE REE RE	mat_(295) 3 tgtto aaggoggto gggto gggto ggcao	_pept 5) cg to ga gt ct ca ga aa cta Leu -15	cide (110: ccaag cgcca accat aaaga ctg Leu	ttg Leu	att Ile	gato agtto agaa ttg Leu	3999 ectt atg Met act Thr -10 tca	taag ctgt ctc Leu -25 atc Ile tta	tgc Cys ttc Phe	atc of agt of cct Pro tta Leu	tgtaggaggagggggggggggggggggggggggggggg	actgag aggaaa aga Arg gcc Ala -5 act	120 180 234
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg	OCAT: EATUI AME/I OCAT: EQUEI aag (tag (cca (agt (agt (Asn gag	ION: RE: REY: ION: REE ION: REE REE REE REE REE REE REE REE REE RE	mat_(295) 3 tgtto aaggoggto gggto gggto ggcao	_pept 5) cg to ga gt ct ca ga aa cta Leu -15	cide (110: ccaag cgcca accat aaaga ctg Leu	ttg Leu	att Ile	gato agtto agaa ttg Leu	3999 ectt atg Met act Thr -10 tca	taag ctgt ctc Leu -25 atc Ile tta	tgc Cys ttc Phe	atc of agt of cct Pro tta Leu	tgtaggaggagggggggggggggggggggggggggggg	actgag aggaaa aga Arg gcc Ala -5 act	120 180 234 282
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg act gct Chr Ala 20 gaa gcg	OCAT: EATUI AME/I OCAT: EQUEI aag (tag (ca (agt (a	ION: RE: RE: ION: RE: LON: RE: LON: RE: LON: RETTOTAL RET	mat_(2953 cgttoggggtogggtogggtogggtogggtogggtoggg	pept cg to ga gt ct ca ga aa cta Leu -15 gct Ala	ctg ctaage ctg ctg ctg	ttg Leu Cca tro	att Ile aac Asn 5	ttg Leu aac Asn	Met act Thr -10 tca Ser	taag ctgt ctc Leu -25 atc Ile tta Leu	tgc Cys ttc Phe atg	atc of agt of cct Pro tta Leu ctg Leu 10	tgta gtgga tgg Trp gtg Val caa Gln	actgag aggaaa aga Arg gcc Ala -5 act	120 180 234 282
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S 2agagaa aggggc agttga agtactg Act gct Chr Ala 220 Jaa gcg	OCAT: EATUI AME/I OCAT: EQUEI aag (tag (ca (agt (a	ION: RE: RE: ION: RE: LON: RE: LON: RE: LON: RETTOTAL RET	mat_(2953 cgttoggggtogggtogggtogggtogggtogggtoggg	pept cg to ga gt ct ca ga aa cta Leu -15 gct Ala	ctg ctaage ctg ctg ctg	ttg Leu Cca tro	att Ile aac Asn 5	ttg Leu aac Asn	Met act Thr -10 tca Ser	taag ctgt ctc Leu -25 atc Ile tta Leu	tgc Cys ttc Phe atg	atc of agt of cct Pro tta Leu ctg Leu 10	tgta gtgga tgg Trp gtg Val caa Gln	actgag aggaaa aga Arg gcc Ala -5 act	120 180 234 282
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg act gct Chr Ala 20 gaa gcg	OCAT: EATUI AME/I OCAT: EQUEI aag (tag a cca g agt g agt g gag Glu gag	ION: RE: RE: ION: RE: LON: RE: LON: RE: LON: RE: RETTOT RE	mat_(295) 3 cgtto aagggggto gggcao gggcao ggg ggt ggcao ggcao ggg gt Ala 1 cat	pept 5) cg toga gt caga aa cta Leu -15 gct Ala	ctg Leu caa ctg tta	ttg Leu cca tro gct	att Ile aac Asn 5	ttg Leu aac Asn	B999 cctt atg Met act Thr -10 tca Ser agt	taag ctgt ctc Leu -25 atc Ile tta Leu	gagga tacca tgc Cys ttc Phe atg Met	atc of agt of cct Pro tta Leu ctg Leu atg	tgtaggatggatgg Trp gtg Val caa Gln gat	actgag aggaaa aga Arg gcc Ala -5 act Thr	120 180 234 282 330
245 < 247 < 248 < 249 < 251 < 252	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg act gct Chr Ala 20 gaa gcg flu Ala	OCAT: EATUI AME/I OCAT: EQUEI aag (tag a cca g agt g agt g gag Glu gag	ION: RE: RE: ION: RE: LON: RE: LON: RE: LON: RE: RETTOT RE	mat_(295) 3 cgtto aagggggto gggcao gggcao ggg ggt ggcao ggcao ggg gt Ala 1 cat	pept 5) cg toga gt caga aa cta Leu -15 gct Ala	ctg Leu caa ctg tta	ttg Leu cca tro gct	att Ile aac Asn 5	ttg Leu aac Asn	B999 cctt atg Met act Thr -10 tca Ser agt	taag ctgt ctc Leu -25 atc Ile tta Leu	gagga tacca tgc Cys ttc Phe atg Met	atc of agt of cct Pro tta Leu ctg Leu atg	tgtaggatggatgg Trp gtg Val caa Gln gat	actgag aggaaa aga Arg gcc Ala -5 act Thr	120 180 234 282 330
245 < 247 < 248 < 249 < 251 < 252 ca 256 aa 258 aa 259 260 262 aa 263 Tl 266 Ga 267 Ga 271 Sc 272	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg act gct Chr Ala 20 gaa gcg flu Ala	OCAT: EATUI AME/I OCAT: EQUEI aag o tag a cca o agt o agt gag Glu gag Glu 15	CON: RE: RE: RE: RE: RE: RET: RET: RET: RET	mat_(295) 3 cgtto aaggggggggggggggggggggggggggggggggg	pept ga gt ga a cta Leu -15 gct Ala gct	ctg ccaa ctg ctg Leu caa Gln tta	ttg ccact ttg Leu cca Pro gct Ala	att Ile aac Asn 5 tca Ser	ttg Leu aac Asn agc Ser	gggg ctt atg Met act Thr -10 tca Ser agt	taag ctgt ctc Leu -25 atc Ile tta Leu	tgc Cys ttc Phe atg Met tgt Cys 25	atc of agt of cct Pro tta Leu ctg Leu 10 atg Met	tgtggggggggggggggggggggggggggggggggggg	actgag aggaaa aga Arg gcc Ala -5 act Thr	120 180 234 282 330
245 < 247 < 248 < 249 < 251 < 252 ca 256 aa 258 aa 259 260 262 aa 263 Tl 264 - 266 ga 271 Sc 272 274 aa 274	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg act gct Chr Ala 20 gaa gcg Glu Ala agc aag	OCAT: EATUI AME/I OCAT: EQUEI aag cag tag a cca g agt g agt gag Glu gag Glu 15 att	ION: RE: RE: RE: RE: RE: RE: RE: RE: RE: RE	mat_(295) 3 cgttcaaggggtcagggcagggcagggcagggcagggca	pept ga gt cta cta Leu -15 gct Ala gct Ala aac	ctg Leu tta Leu	ttg ccact ttg Leu cca Pro gct Ala 20	att Ile aac Asn 5 tca Ser aaa	ttg Leu aac Asn agc Ser	Eggg Cctt atg Met act Thr -10 tca Ser agt Ser	taag ctgt ctc Leu -25 atc Ile tta Leu tta Leu	tgc Cys ttc Phe atg Met tgt Cys gaa	atc of agt of cct Pro tta Leu ctg Leu 10 atg Met gtt	tgtggggggggggggggggggggggggggggggggggg	actgag aggaaa aga Arg gcc Ala -5 act Thr gaa Glu act	120 180 234 282 330
245 < 247 < 248 < 249 < 251 < 252 ca 256 aa 258 aa 259 260 262 aa 263 Tl 264 - 266 ga 271 Sc 272 274 aa 274	222> L 220> F 221> N 222> L 400> S agagaa aggggc agttga agtactg act gct thr Ala 20 gaa gcg Hu Ala agc aag ger Lys	OCAT: EATUI AME/I OCAT: EQUEI aag cag tag a cca g agt g agt gag Glu gag Glu 15 att	ION: RE: RE: RE: RE: RE: RE: RE: RE: RE: RE	mat_(295) 3 cgttcaaggggtcagggcagggcagggcagggcagggca	pept ga gt cta cta Leu -15 gct Ala gct Ala aac	ctg Leu tta Leu	ttg ccact ttg Leu cca Pro gct Ala 20	att Ile aac Asn 5 tca Ser aaa	ttg Leu aac Asn agc Ser	Eggg Cctt atg Met act Thr -10 tca Ser agt Ser	taag ctgt ctc Leu -25 atc Ile tta Leu tta Leu	tgc Cys ttc Phe atg Met tgt Cys gaa	atc of agt of cct Pro tta Leu ctg Leu 10 atg Met gtt	tgtggggggggggggggggggggggggggggggggggg	actgag aggaaa aga Arg gcc Ala -5 act Thr gaa Glu act	120 180 234 282 330

Input Set : N:\KEISHA\10009445c.txt

Output Set: N:\CRF4\05312005\J009445C.raw

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279	Ser	Trp	Pro	Val	Lys		Ala	Thr	Asn	Ala		Leu	Cys	Cys	Pro		
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		-		_		_						_			ctg	-	522
	Ile	Ala	Leu	Arg		Leu	Ile	Ile	Ile		Trp	Glu	Ile	Ile	Leu	Arg	
284					65					70					75		
		_			_			-		_		_			gag		570
	GIA	Gln	Pro		Cys	Thr	Lys	Ala	_	Lys	Lys	GIu	Thr		Glu	Thr	
288				80					85					90			
	_	_			-		_	-	-						aga		618
	ьys	GIU		Asn	Cys	Thr	Asp		Arg	тте	Thr	Trp		ser	Arg	Pro	
292			95	.				100					105				~~~
	_	_		_	_		_		_			_			cat	_	666
	Asp		Asn	ser	Asp	ьeu		ше	Arg	Thr	vaı		TTE	Thr	His	Asp	
296		110					115					120					714
															cat		714
	_	ıyı	TAT	Arg	Cys		Met	vai	1111	PIO	_	Gry	ASII	Pne	His	140	
300		+ - +	a.a	ata	a aa	130	++-	~++	202	aat	135	~+~	200	ata	+++		762
								_			_				ttt		702
	GIÀ	TAT	птъ	ьеи	145	vai	Leu	vai	1111	150	GIU	vai	1111	ьeu	Phe 155	GIII	
304	224	200	22+	242		aas	at a	+ ~ ~	224		~++	aas	aaa	224		act	810
															cca Pro		010
308	ASII	Arg	ASII	160	1111	міа	vai	Сув	165	Ата	vai	Ата	Gry	170	PIO	AIA	
	aaa	ast	ata		taa	ata	002	aaa		ast	tat	acc	act	-	caa	as a	858
								_		-	_	_		_	Gln	_	030
312	лта	1115	175	Ser	тър	116	FIO	180	GIY	тэр	Cys	ліа	185	цуз	GIII	GIU	
	tac	taa		aat	aac	aca	ata		att	aad	agt	aca		cac	tgg	aaa	906
															Trp		, , , ,
316	- 1 -	190	501	11011	017		195		vul	1 , 5	D C.	200	Cyb			014	
	ata		aat	ata	tet	acc		acc	tac	cac	ata		cat	t.t.a	act	aac	954
															Thr		
320						210			-7-		215					220	
		aaq	agt	cta	tac		gag	cta	ctt	cct	-	cca	aat	acc	aaa		1002
		_	_	_							_			_	Lys		
324		4			225	_		-		230					235	-	
326	atc	aqc	aaa	att	ata	tat	tcc	ata	tat	cat	cct	tac	tat	tat	tat	tta	1050
327	Ile	Ser	Lys	Ile	Ile	Tyr	Ser	Ile	Tyr	His	Pro	Tyr	Tyr	Tyr	Tyr	Leu	
328			•	240		•			245			•	•	250	-		
330	gac	cat	cgt	ggg	att	cat	ttg	gtt	gtt	gaa	agt	caa	tgg	ctg	cag	aaa	1098
															Gln		
332	_		255	_				260					265				
334	ata	taaa	attga	aat a	aaaa	cagaa	at ct	tacto	cagt	tgi	ttga	ggag	gate	gaaa	tgc		1151
335	Ile					_			_	_	_						
337	agco	cctat	gc d	aget	acad	ca ga	agaag	gaaca	ato	cctc	tcta	tgat	acta	aca a	aacaa	aggtga	1211
																tgttg	
			_	_				-								tttct	
																agacat	
345	ttta	atg	gat t	ctca	attca	at ac	ccct	gtat	aat	tgga	aatt	ttt	gatto	tt a	agct	gctacc	1451

Input Set: N:\KEISHA\10009445c.txt

Output Set: N:\CRF4\05312005\J009445C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
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Seq#:13; N Pos. 114,120,126,132,135,138,144,153,162,165,168,177,180,186,189
Seq#:13; N Pos. 192,198,204,210,216,222,225,228,231,237,240,252,261,267,270
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Output Set: N:\CRF4\05312005\J009445C.raw

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/009,445C

DATE: 05/31/2005 TIME: 15:00:58

Input Set : N:\KEISHA\10009445c.txt

Output Set: N:\CRF4\05312005\J009445C.raw

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IFW16

RAW SEQUENCE LISTING DATE: 05/25/2005 PATENT APPLICATION: US/10/009,445C TIME: 13:59:12

Input Set : E:\14094-20009.00 - corrected substitute seq list.txt

Output Set: N:\CRF4\05252005\J009445C.raw

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4 <110> APPLICANT: BARCLAY, A. Neil
        BROWN, Marion H.
 5
        GORMAN, Daniel M.
 7
        LANIER, Lewis L.
        WRIGHT, Gavin J.
8
                                                             Does Not Comply
9
        CHERWINSKI, Holly
                                                             Corrected Diskette Needed
10
        PHILLIPS, Joseph H.
11
        HOEK, Robert M.
        SEDGWICK, Jonathan D.
14 <120> TITLE OF INVENTION: OX2 RECEPTOR HOMOLOGS (AS AMENDED)
16 <130> FILE REFERENCE: 140942000900
18 <140> CURRENT APPLICATION NUMBER: US 10/009,445C
19 <141> CURRENT FILING DATE: 2001-11-13
21 <150> PRIOR APPLICATION NUMBER: PCT US00/12998
22 <151> PRIOR FILING DATE: 2000-05-11
24 <150> PRIOR APPLICATION NUMBER: GB 9925989.7
25 <151> PRIOR FILING DATE: 1999-11-03
28 <150> PRIOR APPLICATION NUMBER: GB 9911123.9
29 <151> PRIOR FILING DATE: 1999-05-13
31 <160> NUMBER OF SEQ ID NOS: 70
33 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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ERRORED SEQUENCES

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2444 <213> ORGANISM: Mus musculus
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2448 1 5 10 15
2449 Phe Gln Lys Arg Asn Phe Ala Arg Thr
2450 20 25

E--> 2452 38
E--> 2455 29
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/009,445C

DATE: 05/25/2005 TIME: 13:59:13

Input Set : E:\14094-20009.00 - corrected substitute seq list.txt

Output Set: N:\CRF4\05252005\J009445C.raw

L:1087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0 M:341 Repeated in SeqNo=13 L:1137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0 M:341 Repeated in SeqNo=14 L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 M:341 Repeated in SeqNo=15 L:1233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0 M:341 Repeated in SeqNo=16 L:1275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0 M:341 Repeated in SeqNo=17 L:1311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0 M:341 Repeated in SeqNo=18 L:1540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0 M:341 Repeated in SeqNo=21 L:1742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0 M:341 Repeated in SeqNo=24

L:2452 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:70 ν

M:332 Repeated in SeqNo=70